Date: 28-10-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.86%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.65%**	Not more than 35.0 %
3.	Water absorption, %	**0.43 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-1-W8 Date: 30-10-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Ageney/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.15	95-100
26.50	---	-
22.40	71.90	60-80
11.20	53.65	40-60
4.75	36.45	25-40
2.36	23.15	15-30
0.600	18.70	8-22
0.075	3.65	0-5

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 30-10-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV) - 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.54%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.37%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NC/QC/BD/W5/2020-21/P2-1-W9

Date: 02-11-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.35**	95-100
26.50	**---**	-
22.40	**73.55**	60-80
11.20	**56.90**	40-60
4.75	**32.15**	25-40
2.36	**26.55**	15-30
0.600	**17.35**	8-22
0.075	**3.85**	0-5

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Page No. 1/2,

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Date: 02-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.89%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.97%	Not more than 35.0 %
3.	Water absorption, %	0.43 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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Date: 04-11-2020

NC/QC/BD/W5/2020-21/P2-1-W10

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.35	95-100
26.50	---	-
22.40	74.15	60-80
11.20	50.45	40-60
4.75	34.25	25-40
2.36	23.90	15-30
0.600	18.75	8-22
0.075	3.60	0-5

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Date: 04-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.56%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.76%**	Not more than 35.0 %
3.	Water absorption, %	**0.43%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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Date: 07-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.45%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.36%**	Not more than 35.0 %
3.	Water absorption, %	**0.43%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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Date: 09-11-2020

NC/QC/BD/W5/2020-21/P2-1-W12

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.35	95-100
26.50	---	-
22.40	73.45	60-80
11.20	53.90	40-60
4.75	36.70	25-40
2.36	25.05	15-30
0.600	17.25	8-22
0.075	3.50	0-5

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EMAIL:newzen576@gmail.com

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Date: 09-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.16 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.74 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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EMAIL:newzen576@gmail.com

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Date: 09-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.16 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.74 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

NEWZEN CONSULTANT Bangalore

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/BD/W5/2020-21/P2-1-W13

Date: 10-11-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**96.80**	95-100
26.50	**---**	-
22.40	**70.35**	60-80
11.20	**54.60**	40-60
4.75	**32.90**	25-40
2.36	**24.30**	15-30
0.600	**19.90**	8-22
0.075	**3.65**	0-5

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Page No. 1/2,

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Date: 10-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.86%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.54%**	Not more than 35.0 %
3.	Water absorption, %	**0.43 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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Date: 12-11-2020

NC/QC/BD/W5/2020-21/P2-1-W14

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.40	95-100
26.50	---	-
22.40	75.60	60-80
11.20	53.45	40-60
4.75	35.90	25-40
2.36	23.15	15-30
0.600	18.70	8-22
0.075	4.10	0-5

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Date: 12-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.58%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.15%**	Not more than 35.0 %
3.	Water absorption, %	**0.44%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NC/QC/BD/W5/2020-21/P2-1-W15 Date: 14-11-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.50**	95-100
26.50	**---**	-
22.40	**71.15**	60-80
11.20	**56.80**	40-60
4.75	**34.55**	25-40
2.36	**23.10**	15-30
0.600	**19.25**	8-22
0.075	**3.65**	0-5

NEWZEN CONSULTANT * Bangalore *

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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EMAIL:newzen576@gmail.com

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Date: 14-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.64 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.78 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NC/QC/BD/W5/2020-21/P2-1-W16

Date: 17-11-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.10**	95-100
26.50	---	-
22.40	**76.25**	60-80
11.20	**52.80**	40-60
4.75	**34.45**	25-40
2.36	**23.15**	15-30
0.600	**18.70**	8-22
0.075	**3.55**	0-5

NEWZEN CONSULTANT Bangalore

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-11

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 17-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.54%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.58%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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NC/QC/BD/W5/2020-21/P2-1-W17

Date: 18-11-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**96.75**	95-100
26.50	**---**	-
22.40	**71.35**	60-80
11.20	**55.80**	40-60
4.75	**36.45**	25-40
2.36	**24.30**	15-30
0.600	**19.85**	8-22
0.075	**3.50**	0-5

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Page No. 1/2,

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ಬ್ಯಾಟರಾಯನ... ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Scanned by CamScanner

Date: 18-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.96%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.54%	Not more than 35.0 %
3.	Water absorption, %	0.43 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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Date: 19-11-2020

NC/QC/BD/W5/2020-21/P2-1-W18

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.40**	95-100
26.50	**---**	-
22.40	**70.15**	60-80
11.20	**56.25**	40-60
4.75	**34.65**	25-40
2.36	**26.80**	15-30
0.600	**17.30**	8-22
0.075	**4.15**	0-5

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Date: 21-11-2020

NC/QC/BD/W5/2020-21/P2-1-W19

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.80	95-100
26.50	---	-
22.40	72.55	60-80
11.20	50.25	40-60
4.75	35.85	25-40
2.36	22.10	15-30
0.600	19.25	8-22
0.075	3.80	0-5

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Date: 21-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.86%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.74%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NC/QC/BD/W5/2020-21/P2-1-W20 Date: 23-11-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.10**	95-100
26.50	**---**	-
22.40	**74.35**	60-80
11.20	**52.80**	40-60
4.75	**34.45**	25-40
2.36	**23.15**	15-30
0.600	**18.70**	8-22
0.075	**3.45**	0-5

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Date: 23-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.65%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.17%**	Not more than 35.0 %
3.	Water absorption, %	**0.43 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NC/QC/BD/W5/2020-21/P2-1-BD1

Date: 09-11-2020

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**52.80^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**108.90 cm**	40
3.	Flash point	**248^0 C**	Minimum 220^0 C
4.	Softening point	**51.20^0 C**	Min. 47

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Date: 09-11-2020

NC/QC/BD/W5/2020-21/P2-1-CD1

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Dense Graded Bituminous Macadam.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**23.15%**	Not more than 27.00 % for DBM
2.	Combined Flakiness and Elongation index, %	**26.76%**	Not more than 35.0 %
3.	Water absorption, %	**0.42%**	Not more than 2.0 %
4.	Specific gravity	**2.62**	-------
5.	Soundness	**6.96 %**	Max. 12 % in Sodium Sulphate

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Date: 11-11-2020

NC/QC/BD/W5/2020-21/P2-1-DBM1

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}

Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	97.25	90-100
19.0	82.15	71-95
13.20	74.35	56-80
4.75	47.70	38-54
2.36	34.05	28-42
0.300	19.40	7-21
0.075	6.80	2-8

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Date: 12-11-2020

NC/QC/BD/W5/2020-21/P2-1-DS1

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}

Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1238**	900
2	Marshall Flow at 60°C, mm.	**3.26**	2.0 - 4.0

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NC/QC/BD/W5/2020-21/P2-1-DBM2 Date: 11-11-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.45**	90-100
19.0	**84.55**	71-95
13.20	**71.60**	56-80
4.75	**49.10**	38-54
2.36	**36.80**	28-42
0.300	**18.25**	7-21
0.075	**6.15**	2-8

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Date: 12-11-2020

NC/QC/BD/W5/2020-21/P2-1-DS2

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}

Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1256**	900
2	Marshall Flow at 60°C, mm.	**3.44**	2.0 - 4.0

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Date: 12-11-2020

NC/QC/BD/W5/2020-21/P2-1-DBM3

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}

Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**98.15**	90-100
19.0	**83.15**	71-95
13.20	**71.40**	56-80
4.75	**46.70**	38-54
2.36	**38.05**	28-42
0.300	**17.90**	7-21
0.075	**7.15**	2-8

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Date: 13-11-2020

NC/QC/BD/W5/2020-21/P2-1-DS3

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}

Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1258**	900
2	Marshall Flow at 60°C, mm.	**3.42**	2.0 - 4.0

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NC/QC/BD/W5/2020-21/P2-1-BB1 **Date: 11-11-2020**

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**51.60^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**108.0 cm**	40
3.	Flash point	**237^0 C**	Minimum 220^0 C
4.	Softening point	**50.30^0 C**	Min. 47

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NC/QC/BD/W5/2020-21/P2-1-CB1 Date: 11-11-2020

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**22.89 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**27.65 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42%**	Not more than 2.0 %
4.	Specific gravity	**2.62**	-------
5.	Soundness	**5.38%**	Max. 12 % in Sodium Sulphate

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NC/QC/BD/W5/2020-21/P2-1-BC1 **Date: 13-11-2020**

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.25**	90-100
9.5	**83.10**	70-88
4.75	**67.50**	53-71
2.36	**54.25**	42-58
1.18	**43.35**	34-48
0.600	**34.75**	26-38
0.300	**22.60**	18-28
0.150	**18.25**	12-20
0.075	**7.15**	4-10

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NC/QC/BD/W5/2020-21/P2-1-BS1 Date: 14-11-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1368**	900
2	Marshall Flow at 60°C, mm.	**3.54**	2.0 - 4.0

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NC/QC/BD/W5/2020-21/P2-1-BC2 Date: 13-11-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**98.25**	90-100
9.5	**83.10**	70-88
4.75	**64.45**	53-71
2.36	**54.80**	42-58
1.18	**42.70**	34-48
0.600	**35.50**	26-38
0.300	**24.60**	18-28
0.150	**16.25**	12-20
0.075	**8.40**	4-10

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NC/QC/BD/W5/2020-21/P2-1-BS2 Date: 14-11-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Layout, Sri krishna Garden, Shivashankara Layout, Varaha Layout, Bindhu Layout, and Surrounding areas in Ward No- 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1352**	900
2	Marshall Flow at 60°C, mm.	**3.40**	2.0 - 4.0

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